

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	8	"3185389"	US-PGPUB; USPAT	OR	OFF	2011/01/10 15:23
L2	2	"2932474"	US-PGPUB; USPAT	OR	OFF	2011/01/10 15:23
L3	5	"3182902"	US-PGPUB; USPAT	OR	OFF	2011/01/10 15:23
L4	3	"2001098658"	DERWENT	OR	OFF	2011/01/10 15:23
L5	1	("2932474").URPN.	USPAT	OR	OFF	2011/01/10 15:23
L6	3	("3182902").URPN.	USPAT	OR	OFF	2011/01/10 15:23
L7	39	("2857746"   "2894678"   "3016183"   "3044688"   "3169696"   "3182902"   "3185389"   "3209991"   "3215343"   "3233822"   "3246836"   "3279683"   "3385542"   "3454213"   "3458121"   "3689207"   "3807907"   "3836290"   "3850551"   "3876339"   "3883101"   "4118153"). PN. OR ("4427349").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23
L8	6	("3578279"   "4427349"   "4549859"   "5934884"   "6004113").PN. OR ("6485271").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23
L9	15	("1129526"   "1290159"   "3030056"   "3185389"). PN. OR ("3578279").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23
L10	16	("3030056").URPN.	USPAT	OR	OFF	2011/01/10 15:23
L11	36	("1988295"   "2069767"   "3030056"   "3065901"   "3292884"   "3465954"   "3531069"   "3540813"   "3578279"   "3814357"   "3887304"   "3926156"   "4043432"   "4108581"   "4174189"   "4200426"   "4262977"   "4549859"   "4871300"   "4891955"   "5090657").PN. OR ("5342179").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23

L12	29	("0886227"   "0956618"   "1119300"   "1711085"   "1988295"   "20040168464"   "2175784"   "2222724"   "2687270"   "2949324"   "2979297"   "4722505"   "4731966"   "4771989"   "4871300"   "5342179"   "5913892"   "6004113"   "6079690").PN. OR ("7478790").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23
L13	39	("2857746"   "2894678"   "3016183"   "3044688"   "3169696"   "3182902"   "3185389"   "3209991"   "3215343"   "3233822"   "3246836"   "3279683"   "3385542"   "3454213"   "3458121"   "3689207"   "3807907"   "3836290"   "3850551"   "3876339"   "3883101"   "4118153"). PN. OR ("4427349").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23
L14	34	("2069767"   "2130835"   "2463035"   "2801045"   "3065901"   "3169757"   "3185389"   "3578279"   "3689203"   "3820921"). PN. OR ("4549859").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23
L15	6	("4544334"   "5252038"   "5772410").PN. OR ("5934884").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23
L16	4	"1057294"	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23
L17	1	"10572954"	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23
L18	0	("2008/0232984").URPN.	USPAT	OR	OFF	2011/01/10 15:23
L19	0	min-woo adj lee.in.	US-PGPUB; USPAT; DERWENT	OR	OFF	2011/01/10 15:23
L20	44	min-woo and lee.in.	US-PGPUB; USPAT; DERWENT	OR	OFF	2011/01/10 15:23
L21	7	spring near mass adj part	US-PGPUB; USPAT; DERWENT	OR	OFF	2011/01/10 15:23
L22	748	417/363.ccls.	US-PGPUB; USPAT	OR	OFF	2011/01/10 15:23
L23	17	L22 and "267".clas.	US-PGPUB; USPAT	OR	OFF	2011/01/10 15:23

L24	133	L22 and "248".clas.	US-PGPUB; USPAT	OR	OFF	2011/01/10 15:23
L25	0	417/363.clas.	US-PGPUB; USPAT	OR	OFF	2011/01/10 15:23
L26	748	417/363.ccls.	US-PGPUB; USPAT	OR	OFF	2011/01/10 15:23
L27	1562521	spring or coil	US-PGPUB; USPAT	OR	OFF	2011/01/10 15:23
L28	14001	(spring or coil) with pitch \$2	US-PGPUB; USPAT	OR	OFF	2011/01/10 15:23
L29	6	L28 and L26	US-PGPUB; USPAT	OR	OFF	2011/01/10 15:23
L30	1562521	(spring or coil)	US-PGPUB; USPAT	OR	OFF	2011/01/10 15:23
L31	1699466	(spring\$1 or coil\$1)	US-PGPUB; USPAT	OR	OFF	2011/01/10 15:23
L32	240	L31 and L26	US-PGPUB; USPAT	OR	OFF	2011/01/10 15:23
L33	9	L32 and pitch\$2	US-PGPUB; USPAT	OR	OFF	2011/01/10 15:23
L34	27	("2865559"   "3947155"   "4067667"   "4179630"   "4360087"   "4427906"   "4781546"   "4924675"   "5354185"   "5727932"   "5772410"   "5779455"   "5993175"   "6082132"   "6092999").PN. OR ("6273688").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23
L35	746	267/178,166.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23
L36	77	L35 and pitch	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23
L37	5	("3058705").URPN.	USPAT	OR	OFF	2011/01/10 15:23
L38	22	("0818242"   "3058705"   "3544106"   "3761083"). PN. OR ("4775149").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23
L39	722	248/618,624.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23
L40	18	L39 and pitch	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23
L41	10044	variable adj pitch\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23
L42	70	L41 near spring	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23

L43	21	("0485652"   "4553545"   "4760849"   "4830023"   "4994069"   "5069217"   "5122136"   "5171383"   "5304194"   "5382259"   "5540680"   "5690666"   "5766160").PN. OR ("6254592").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23
L44	517	("3509883"   "3868956"   "3993078"   "4130904"   "4503569"   "4512338"). PN. OR ("4553545").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23
L45	18	("1878128"   "2514394"   "2704696"   "3141660"   "3779537"   "3854308"   "4553545"   "4712778"   "4886250"   "4905574"   "5246215"   "5361500"   "5368107"   "6375171"). PN. OR ("7270320").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23
L46	9	("485652").URPN.	USPAT	OR	OFF	2011/01/10 15:23
L47	74	("0026954"   "0085938"   "0140975"   "0274715"   "0380651"   "0485652"   "0569256"   "1250892"   "1744389"   "1751261"   "1798885"   "1804821"   "1839325"   "1879172"   "1907324"   "20010008030"   "20010013147"   "20020125623"   "20040025257"   "20060042016"   "2480158"   "3751025"   "4077619"   "4111407"   "4535978"   "4548390"   "4664361"   "4726572"   "5040255"   "5127635"   "5222264"   "5319815"   "5701623"   "5713088"   "5720471"   "5868383"   "6134729"   "6243900"   "6256820"   "6260223"   "6318416"   "6336305"   "6339857"   "6398199"   "6408469"   "6481701"   "6931685").PN. OR ("7178187").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23
L48	30	("0380651"   "1751261"   "2666636"   "2668278"). PN. OR ("4077619").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23
L49	43	("1963054"   "2650617"   "3127147").PN. OR ("3751025").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23

L50	6	("1751261"   "2751179"   "3751025"   "4111407").PN. OR ("D336600").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23
L51	6	("1751261"   "2751179"   "3751025"   "4111407").PN. OR ("D338383").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23
L52	11	("1963054").URPN.	USPAT	OR	OFF	2011/01/10 15:23
L53	1	"10572954"	US-PGPUB; USPAT	OR	OFF	2011/01/10 15:23
L54	1	"11887179"	US-PGPUB; USPAT	OR	OFF	2011/01/10 15:23
L55	1	"10587234"	US-PGPUB; USPAT	OR	OFF	2011/01/10 15:23
L56	1	"2004005222"	US-PGPUB; USPAT	OR	OFF	2011/01/10 15:23
L57	1	"2004/005222"	US-PGPUB; USPAT	OR	OFF	2011/01/10 15:23
L58	1	"20040005222"	US-PGPUB; USPAT	OR	OFF	2011/01/10 15:23
L59	1	"11591959"	US-PGPUB; USPAT	OR	OFF	2011/01/10 15:23
L60	0	("2008/0098560").URPN.	USPAT	OR	OFF	2011/01/10 15:23
L61	487	248/624.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
L62	5	("3058705").URPN.	USPAT	OR	ON	2011/01/10 15:23
L63	332	nonlinear adj spring	USPAT	OR	ON	2011/01/10 15:23
L64	631	nonlinear near1 spring	US-PGPUB; USPAT	OR	ON	2011/01/10 15:23
L65	1730	(nonlinear or non-linear or non adj linear) near spring	US-PGPUB; USPAT	OR	ON	2011/01/10 15:23
L66	29	((nonlinear or non-linear or non adj linear) near spring).ti.	US-PGPUB; USPAT	OR	ON	2011/01/10 15:23
L67	18	("1095821"   "20020113352"   "2055242"   "2848216"   "3039757"   "3750238"   "3856285"   "5062619"   "5092568"   "5529327"   "5622358"   "6193225"   "6328294").PN. OR ("7249757").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
L68	22	("0338267"   "1963054"   "2586646"   "3068666"   "5678809"   "5944302").PN. OR ("6193225").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23

L69	31	("2991064"   "3011775"   "4632496"   "4655462"   "4826144"   "4830344"   "4876781"   "4893795"   "4907788"   "4915366"   "4961253"   "4964204"   "4974821"   "5108078"   "5139243"   "5139276"   "5160122"   "5203849"   "5239737"   "5503375"   "5615870"   "5709371"   "5791638"   "6122862"   "6193225"   "6220586"   "6481701").PN. OR ("7055812").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
L70	11	("1846257"   "2991064"   "5139243").PN. OR ("5615870").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
L71	45	spring with pitch\$3 near3 (non-linear or non adj linear or nonlinear or various or multiple)	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
L72	8	("5610356"   "5648621"   "5783765"   "6297437"). PN. OR ("6649821").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
L73	2757	spring near2 pitch\$3	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
L74	1317	spring near pitch\$3	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
L75	657	spring with pitch\$3 near3 var\$4	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
L76	0	"11447301"	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
L77	0	spring near assymetric near pitch	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
L78	0	spring near asymeric near pitch	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
L79	1261	spring near pitch	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
L80	1	spring near pitch near uneven	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
L81	0	spring near pitch with assymetric	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
L82	0	spring near pitch with asymeric	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
L83	0	spring near pitch with asymmetric	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
L84	0	spring near pitch* 2 with asymmetric	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
L85	0	spring near pitch\$2 with asymmetric	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23

L86	1	spring near pitch\$2 with uneven	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
L87	0	spring near pitch\$2 with symmetric	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
L88	0	spring near pitch\$2 with asymm\$5	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
L89	1290	spring near pitch\$2	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
L90	1	"10572954"	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
L91	25	(US-3185389-\$ or US-3182902-\$ or US-2932474-\$ or US-4427349-\$ or US-6485271-\$ or US-7249937-\$ or US-6004113-\$ or US-4549859-\$ or US-6409160-\$ or US-6832899-\$ or US-5246215-\$ or US-4886250-\$ or US-7178187-\$ or US-6273396-\$ or US-4077619-\$ or US-3751025-\$ or US-4111407-\$ or US-1963054-\$ or US-3058705-\$ or US-6193225-\$ or US-7055812-\$ or US-6382607-\$ or US-6649821-\$).did. or (US-3058705-\$).did. or (WO-0198658-\$).did.	USPAT; USOCR; DERWENT	OR	ON	2011/01/10 15:23
L92	10	L91 and pitch	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
L93	11	("20010021350"   "20020009370"   "20020051716"   "4118153"   "4914921"   "5252038"   "5487648"   "5579653"   "5687582"   "6300378"   "6485271").PN. OR ("7249937").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
L94	1	L93 and pitch	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
L95	22	("0338267"   "1963054"   "2586646"   "3068666"   "5678809"   "5944302").PN. OR ("6193225").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
L96	9	L95 and pitch	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
L97	29	("1878128"   "2514394"   "3602205"   "4111407"   "4120489"   "4475725"   "4538563"   "4590900"   "4807859"   "4970997"   "4993376").PN. OR ("5246215").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23

L98	11	L97 and pitch	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
L99	11	("20010021350"   "20020009370"   "20020051716"   "4118153"   "4914921"   "5252038"   "5487648"   "5579653"   "5687582"   "6300378"   "6485271"). PN. OR ("7249937").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
L100	1	"10572954"	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
L101	5	("3058705").URPN.	USPAT	OR	ON	2011/01/10 16:39
L102	29	("1878128"   "2514394"   "3602205"   "4111407"   "4120489"   "4475725"   "4538563"   "4590900"   "4807859"   "4970997"   "4993376").PN. OR ("5246215").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 16:52
L103	11	102 and pitch	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 16:52
S1	8	"3185389"	US-PGPUB; USPAT	OR	OFF	2009/04/20 09:51
S2	2	"2932474"	US-PGPUB; USPAT	OR	OFF	2009/04/20 09:51
S3	5	"3182902"	US-PGPUB; USPAT	OR	OFF	2009/04/20 09:51
S4	3	"2001098658"	DERWENT	OR	OFF	2009/04/20 09:51
S5	1	("2932474").URPN.	USPAT	OR	OFF	2009/04/20 10:41
S6	3	("3182902").URPN.	USPAT	OR	OFF	2009/04/20 10:41
S7	39	("2857746"   "2894678"   "3016183"   "3044688"   "3169696"   "3182902"   "3185389"   "3209991"   "3215343"   "3233822"   "3246836"   "3279683"   "3385542"   "3454213"   "3458121"   "3689207"   "3807907"   "3836290"   "3850551"   "3876339"   "3883101"   "4118153"). PN. OR ("4427349").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/20 10:42
S8	6	("3578279"   "4427349"   "4549859"   "5934884"   "6004113").PN. OR ("6485271").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/20 10:43



S9	14	("1129526"   "1290159"   "3030056"   "3185389").PN. OR ("3578279").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/20 10:45
S10	15	("3030056").URPN.	USPAT	OR	OFF	2009/04/20 10:46
S11	35	("1988295"   "2069767"   "3030056"   "3065901"   "3292884"   "3465954"   "3531069"   "3540813"   "3578279"   "3814357"   "3887304"   "3926156"   "4043432"   "4108581"   "4174189"   "4200426"   "4262977"   "4549859"   "4871300"   "4891955"   "5090657").PN. OR ("5342179").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/20 10:47
S12	29	("0886227"   "0956618"   "1119300"   "1711085"   "1988295"   "20040168464"   "2175784"   "2222724"   "2687270"   "2949324"   "2979297"   "4722505"   "4731966"   "4771989"   "4871300"   "5342179"   "5913892"   "6004113"   "6079690").PN. OR ("7478790").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/20 10:47
S13	39	("2857746"   "2894678"   "3016183"   "3044688"   "3169696"   "3182902"   "3185389"   "3209991"   "3215343"   "3233822"   "3246836"   "3279683"   "3385542"   "3454213"   "3458121"   "3689207"   "3807907"   "3836290"   "3850551"   "3876339"   "3883101"   "4118153").PN. OR ("4427349").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/20 10:48
S14	33	("2069767"   "2130835"   "2463035"   "2801045"   "3065901"   "3169757"   "3185389"   "3578279"   "3689203"   "3820921").PN. OR ("4549859").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/20 10:48
S15	5	("4544334"   "5252038"   "5772410").PN. OR ("5934884").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/20 10:49
S16	4	"1057294"	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/20 10:53
S17	1	"10572954"	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/20 10:53

S18	0	("2008/0232984").URPN.	USPAT	OR	OFF	2009/04/20 10:53
S19	0	min-woo adj lee.in.	US-PGPUB; USPAT; DERWENT	OR	OFF	2009/04/20 10:54
S20	27	min-woo and lee.in.	US-PGPUB; USPAT; DERWENT	OR	OFF	2009/04/20 10:54
S21	7	spring near mass adj part	US-PGPUB; USPAT; DERWENT	OR	OFF	2009/04/20 10:55
S22	733	417/363.ccls.	US-PGPUB; USPAT	OR	OFF	2009/04/20 11:22
S23	16	S22 and "267".clas.	US-PGPUB; USPAT	OR	OFF	2009/04/20 11:23
S24	130	S22 and "248".clas.	US-PGPUB; USPAT	OR	OFF	2009/04/20 11:24
S25	0	417/363.clas.	US-PGPUB; USPAT	OR	OFF	2009/04/20 11:25
S26	733	417/363.ccls.	US-PGPUB; USPAT	OR	OFF	2009/04/20 11:25
S27	1392126	spring or coil	US-PGPUB; USPAT	OR	OFF	2009/04/20 11:25
S28	12321	(spring or coil) with pitch \$2	US-PGPUB; USPAT	OR	OFF	2009/04/20 11:26
S29	6	S28 and S26	US-PGPUB; USPAT	OR	OFF	2009/04/20 11:26
S30	1392126	(spring or coil)	US-PGPUB; USPAT	OR	OFF	2009/04/20 11:27
S31	1513687	(spring\$1 or coil\$1)	US-PGPUB; USPAT	OR	OFF	2009/04/20 11:27
S32	232	S31 and S26	US-PGPUB; USPAT	OR	OFF	2009/04/20 11:27
S33	9	S32 and pitch\$2	US-PGPUB; USPAT	OR	OFF	2009/04/20 11:30
S34	24	("2865559"   "3947155"   "4067667"   "4179630"   "4360087"   "4427906"   "4781546"   "4924675"   "5354185"   "5727932"   "5772410"   "5779455"   "5993175"   "6082132"   "6092999").PN. OR ("6273688").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/20 11:33
S35	724	267/178,166.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/20 12:07
S36	67	S35 and pitch	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/20 12:07
S37	4	("3058705").URPN.	USPAT	OR	OFF	2009/04/20 12:10

S38	19	("0818242"   "3058705"   "3544106"   "3761083"). PN. OR ("4775149").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/20 12:11
S39	711	248/618,624.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/20 12:13
S40	16	S39 and pitch	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/20 12:13
S41	9226	variable adj pitch\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/21 11:24
S42	61	S41 near spring	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/21 11:25
S43	17	("0485652"   "4553545"   "4760849"   "4830023"   "4994069"   "5069217"   "5122136"   "5171383"   "5304194"   "5382259"   "5540680"   "5690666"   "5766160").PN. OR ("6254592").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/21 11:29
S44	476	("3509883"   "3868956"   "3993078"   "4130904"   "4503569"   "4512338"). PN. OR ("4553545").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/21 11:30
S45	18	("1878128"   "2514394"   "2704696"   "3141660"   "3779537"   "3854308"   "4553545"   "4712778"   "4886250"   "4905574"   "5246215"   "5361500"   "5368107"   "6375171"). PN. OR ("7270320").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/21 11:31
S46	7	("485652").URPN.	USPAT	OR	OFF	2009/04/21 11:34
S47	68	("0026954"   "0085938"   "0140975"   "0274715"   "0380651"   "0485652"   "0569256"   "1250892"   "1744389"   "1751261"   "1798885"   "1804821"   "1839325"   "1879172"   "1907324"   "20010008030"   "20010013147"   "20020125623"   "20040025257"   "20060042016"   "2480158"   "3751025"   "4077619"   "4111407"   "4535978"   "4548390"   "4664361"   "4726572"   "5040255"   "5127635"   "5222264"   "5319815"   "5701623"   "5713088"   "5720471"   "5868383"   "6134729"   "6243900"	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/21 11:35

		"6256820"   "6260223"   "6318416"   "6336305"   "6339857"   "6398199"   "6408469"   "6481701"   "6931685").PN. OR ("7178187").URPN.				
S48	28	("0380651"   "1751261"   "2666636"   "2668278"). PN. OR ("4077619").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/21 11:37
S49	38	("1963054"   "2650617"   "3127147").PN. OR ("3751025").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/21 11:40
S50	6	("1751261"   "2751179"   "3751025"   "4111407"). PN. OR ("D336600").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/21 11:41
S51	6	("1751261"   "2751179"   "3751025"   "4111407"). PN. OR ("D338383").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/21 11:41
S52	7	("1963054").URPN.	USPAT	OR	OFF	2009/04/21 11:43
S53	1	"10572954"	US-PGPUB; USPAT	OR	OFF	2009/04/21 13:21
S54	1	"11887179"	US-PGPUB; USPAT	OR	OFF	2009/04/22 12:43
S55	1	"10587234"	US-PGPUB; USPAT	OR	OFF	2009/04/22 13:13
S56	0	"2004005222"	US-PGPUB; USPAT	OR	OFF	2009/04/22 13:13
S57	0	"2004/005222"	US-PGPUB; USPAT	OR	OFF	2009/04/22 13:13
S58	1	"20040005222"	US-PGPUB; USPAT	OR	OFF	2009/04/22 13:13
S59	1	"11591959"	US-PGPUB; USPAT	OR	OFF	2009/04/22 13:37
S60	0	("2008/0098560").URPN.	USPAT	OR	OFF	2009/04/22 13:46
S61	482	248/624.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/05 15:26
S62	4	("3058705").URPN.	USPAT	OR	ON	2009/11/05 15:28
S63	323	nonlinear adj spring	USPAT	OR	ON	2009/11/05 15:31
S64	578	nonlinear near1 spring	US-PGPUB; USPAT	OR	ON	2009/11/05 15:31
S65	1567	(nonlinear or non-linear or non adj linear) near spring	US-PGPUB; USPAT	OR	ON	2009/11/05 15:31
S66	26	((nonlinear or non-linear or non adj linear) near spring).ti.	US-PGPUB; USPAT	OR	ON	2009/11/05 15:32

S67	17	("1095821"   "20020113352"   "2055242"   "2848216"   "3039757"   "3750238"   "3856285"   "5062619"   "5092568"   "5529327"   "5622358"   "6193225"   "6328294").PN. OR ("7249757").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/05 15:33
S68	17	("0338267"   "1963054"   "2586646"   "3068666"   "5678809"   "5944302").PN. OR ("6193225").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/05 15:33
S69	30	("2991064"   "3011775"   "4632496"   "4655462"   "4826144"   "4830344"   "4876781"   "4893795"   "4907788"   "4915366"   "4961253"   "4964204"   "4974821"   "5108078"   "5139243"   "5139276"   "5160122"   "5203849"   "5239737"   "5503375"   "5615870"   "5709371"   "5791638"   "6122862"   "6193225"   "6220586"   "6481701").PN. OR ("7055812").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/05 15:34
S70	11	("1846257"   "2991064"   "5139243").PN. OR ("5615870").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/05 15:35
S71	42	spring with pitch\$3 near3 (non-linear or non adj linear or nonlinear or various or multiple)	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/05 15:38
S72	5	("5610356"   "5648621"   "5783765"   "6297437").PN. OR ("6649821").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/05 15:41
S73	2617	spring near2 pitch\$3	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/05 15:41
S74	1249	spring near pitch\$3	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/05 15:41
S75	632	spring with pitch\$3 near3 var\$4	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/05 15:42
S76	0	"11447301"	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/05 16:35
S77	0	spring near assymetric near pitch	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/06 15:23
S78	0	spring near asymeric near pitch	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/06 15:24
S79	1196	spring near pitch	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/06 15:24

S80	0	spring near pitch near uneven	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/06 15:24
S81	0	spring near pitch with assymetric	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/06 15:24
S82	0	spring near pitch with asymetric	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/06 15:24
S83	0	spring near pitch with asymmetric	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/06 15:24
S84	0	spring near pitch* 2 with asymmetric	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/06 15:24
S85	0	spring near pitch\$2 with asymmetric	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/06 15:24
S86	0	spring near pitch\$2 with uneven	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/06 15:24
S87	0	spring near pitch\$2 with symmetric	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/06 15:25
S88	0	spring near pitch\$2 with asymmm\$5	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/06 15:25
S89	1223	spring near pitch\$2	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/06 15:25
S90	1	"10572954"	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/06 16:04
S91	25	(US-3185389-\$ or US-3182902-\$ or US-2932474-\$ or US-4427349-\$ or US-6485271-\$ or US-7249937-\$ or US-6004113-\$ or US-4549859-\$ or US-6409160-\$ or US-6832899-\$ or US-5246215-\$ or US-4886250-\$ or US-7178187-\$ or US-6273396-\$ or US-4077619-\$ or US-3751025-\$ or US-4111407-\$ or US-1963054-\$ or US-3058705-\$ or US-6193225-\$ or US-7055812-\$ or US-6382607-\$ or US-6649821-\$).did. or (US-3058705-\$).did. or (WO-0198658-\$).did.	USPAT; USOCR; DERWENT	OR	ON	2011/01/10 11:42
S92	10	S91 and pitch	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 11:42
S93	11	("20010021350"   "20020009370"   "20020051716"   "4118153"   "4914921"   "5252038"   "5487648"   "5579653"   "5687582"   "6300378"   "6485271").PN. OR ("7249937").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 11:44
S94	1	S93 and pitch	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 11:44

S95	22	("0338267"   "1963054"   "2586646"   "3068666"   "5678809"   "5944302").PN. OR ("6193225").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 11:52
S96	9	S95 and pitch	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 11:52
S97	29	("1878128"   "2514394"   "3602205"   "4111407"   "4120489"   "4475725"   "4538563"   "4590900"   "4807859"   "4970997"   "4993376").PN. OR ("5246215").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 11:55
S98	11	S97 and pitch	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 11:55
S99	11	("20010021350"   "20020009370"   "20020051716"   "4118153"   "4914921"   "5252038"   "5487648"   "5579653"   "5687582"   "6300378"   "6485271").PN. OR ("7249937").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 12:02
S100	1	"10572954"	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 12:04

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